

NTA 3Na

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 7/15/2019 Revision date: 8/10/2022 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name : NTA 3Na
Chemical name : Nitrilotriacetic acid, trisodium salt monohydrate
CAS-No. : 18662-53-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : For more detail information, please refer to Annex

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

Only Representative

REACH24H CONSULTING GROUP
Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland
T +353 1 8899951
reach@reach24h.com

Importer

1.4. Emergency telephone number

Emergency number :

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
Serious eye damage/eye irritation, Category 2 H319
Carcinogenicity, Category 2 H351
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. Harmful if swallowed. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) : Warning

Hazard statements (CLP) : H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements : None.

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2.3. Other hazards

Other hazards which do not result in classification : No information available.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|------|--|
| Nitrilotriacetic acid, trisodium salt monohydrate | CAS-No.: 18662-53-8 EC-No.: 606-091-9 | ≥ 99 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 |

Trisodium nitrilotriacetate (CAS: 5064-31-3, Reg No. 01-2119519239-36-****)

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|-----------------------------|--|-------------------------------|
| Trisodium nitrilotriacetate | (CAS-No.) 5064-31-3 (EC-No.) 225-768-6 (EC Index-No.) 607-620-00-6 | (5 ≤C < 100) Carc. 2, H351 |

Note: Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : Harmful if swallowed. Causes serious eye irritation. Suspected of causing cancer.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : No additional information available.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

Austria - Occupational Exposure Limits

| | |
|----------------------------|--------------------|
| OEL chemical category (AT) | Group B Carcinogen |
|----------------------------|--------------------|

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

DNEL/DMEL (Workers)

| | |
|--------------------------------------|-----------------------|
| Acute - systemic effects, inhalation | 9.6 mg/m ³ |
|--------------------------------------|-----------------------|

| | |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 3.2 mg/m ³ |
|--|-----------------------|

DNEL/DMEL (General population)

| | |
|--------------------------------------|-----------------------|
| Acute - systemic effects, inhalation | 2.4 mg/m ³ |
|--------------------------------------|-----------------------|

| | |
|--------------------------------|------------------|
| Acute - systemic effects, oral | 0.9 mg/kg bw/day |
|--------------------------------|------------------|

| | |
|------------------------------------|------------------|
| Long-term - systemic effects, oral | 0.3 mg/kg bw/day |
|------------------------------------|------------------|

| | |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 0.8 mg/m ³ |
|--|-----------------------|

PNEC (Water)

| | |
|------------------------|-----------|
| PNEC aqua (freshwater) | 0.93 mg/l |
|------------------------|-----------|

| | |
|--------------------------|------------|
| PNEC aqua (marine water) | 0.093 mg/l |
|--------------------------|------------|

| | |
|--------------------------------------|----------|
| PNEC aqua (intermittent, freshwater) | 0.8 mg/l |
|--------------------------------------|----------|

| | |
|--|-----------|
| PNEC aqua (intermittent, marine water) | 0.08 mg/l |
|--|-----------|

PNEC (STP)

| | |
|-----------------------------|----------|
| PNEC sewage treatment plant | 270 mg/l |
|-----------------------------|----------|

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

| |
|-------------------|
| Protective gloves |
|-------------------|

Eye protection:

| |
|----------------|
| Safety glasses |
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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazard protection:

Wear suitable protective clothing.

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Solid |
| Appearance | : White crystal powder |
| Molecular mass | : 257.084 g/mol |
| Colour | : white. |
| Odour | : Odourless |
| Odour threshold | : No data available |
| pH | : 10.5 - 11.5 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : > 340 °C |
| Freezing point | : Not applicable |
| Boiling point | : > 320 °C, decomposes at about 340 °C before boiling |
| Flash point | : Not applicable |
| Auto-ignition temperature | : > 310 °C |
| Decomposition temperature | : 340 °C |
| Flammability (solid, gas) | : Non flammable |
| Vapour pressure | : 0 hPa at 25°C |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.77 at 20°C |
| Solubility | : Water: 457 g/l at 20 °C |
| Log Pow | : No data available |
| Log Kow | : -13.2 |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Non explosive. |
| Oxidising properties | : Non oxidizing. |
| Explosive limits | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

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Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

LD50 oral rat 1740 mg/kg

LD50 dermal rabbit 10000 mg/kg

LC50 inhalation rat (mg/l) > 5 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Nitrilotriacetic acid, trisodium salt monohydrate (18662-53-8)

IARC group 2B - Possibly carcinogenic to humans

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

IARC group 2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2. Other information

Other information : No information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

LC50 fish 114 mg/l/96h Pimephales promelas

EC50 Daphnia 98 mg/l/48h Gammarus pseudolimnaeus

EC50 algae > 91.5 mg/l/72h Desmodesmus subspicatus

NOEC chronic fish > 54 mg/l(229d) Pimephales promelas

NOEC chronic crustacea 9.3 mg/l(147d) Gammarus pseudolimnaeus

12.2. Persistence and degradability

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

Persistence and degradability Readily biodegradable in water

Biodegradation 100% after 14d

12.3. Bioaccumulative potential

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

Log Kow -13.2

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

Nitrilotriacetic acid, trisodium salt monohydrate 18662-53-8 (Refer to Trisodium nitrilotriacetate (5064-31-3))

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Contaminated packaging

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

NTA 3Na is not on the REACH Candidate List

NTA 3Na is not on the REACH Annex XIV List

NTA 3Na is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

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NTA 3Na is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for this substance(Trisodium nitrilotriacetate (5064-31-3))

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BLV | Biological limit value |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |

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Abbreviations and acronyms:

| | |
|--------|--|
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |
| BCF | Bioconcentration factor |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| IARC | International Agency for Research on Cancer |
| OECD | Organisation for Economic Co-operation and Development |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| N.O.S. | Not Otherwise Specified |
| ED | Endocrine disrupting properties |

Data sources : LOLI. ECHA reference.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : None.

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer. |
| | None |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.